

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A gasification system comprising:
a gasification furnace for gasifying a combustible material to produce a combustible gas;
a combustion furnace for combusting char and/or tar produced by gasification in said gasification furnace; ~~and~~
a return line for returning a combustion gas discharged from said combustion furnace to said gasification furnace and said combustion furnace; and
a combustion gas adjustment unit for adjusting a volume of the combustion gas to be returned to said gasification furnace and said combustion furnace via said return line by cooling the combustion gas discharged from said combustion furnace.
2. (Original) The gasification system as recited in claim 1, wherein oxygen is added to the combustion gas to be returned to said combustion furnace.
3. (Original) The gasification system as recited in claim 1, wherein steam or inert gas is supplied to said gasification furnace.
4. (Original) The gasification system as recited in claim 1, wherein the combustion gas is supplied to a portion downstream of said gasification furnace.
5. (Original) The gasification system as recited in claim 1, wherein the combustion gas to be returned to said gasification furnace has an oxygen concentration of 5 % or less.
6. (Original) The gasification system as recited in claim 1, wherein said gasification furnace has a temperature of 350 to 950°C.
7. (Original) The gasification system as recited in claim 1, wherein said combustion furnace has a temperature of 600 to 1000°C.
8. (Currently Amended) The gasification system as recited in claim 1, wherein said combustion furnace comprises a main combustion furnace, further comprising a slagging

combustion furnace for melting ash by using a portion of the combustible gas produced by gasification in said gasification furnace.

9. (Currently Amended) The gasification system as recited in claim 8, wherein a combustion gas discharged from said slagging combustion furnace is returned to said main combustion furnace.

10. (Currently Amended) The gasification system as recited in claim 1, ~~further comprising~~ wherein said combustion gas adjustment unit comprises a water spray gas cooler for spraying water on the combustion gas discharged from said combustion furnace.

11. (Currently Amended) ~~The gasification system as recited in claim 1, further~~ A gasification system comprising:

a gasification furnace for gasifying a combustible to produce a combustible gas;

a combustion furnace for combusting char and/or tar produced by gasification in said gasification furnace;

a return line for returning a combustion gas discharged from said combustion furnace to said gasification furnace and said combustion furnace

a scrubber disposed in a line of the combustible gas discharged from said gasification furnace; and

a water spray gas cooler for spraying water discharged from said scrubber on the combustion gas discharged from said combustion furnace.

12. (Original) The gasification system as recited in claim 1, further comprising a fluidizing gas heater for exchanging heat between the combustion gas discharged from said combustion furnace and the combustion gas to be returned to said gasification furnace and said combustion furnace.

13. (Original) The gasification system as recited in claim 1, further comprising a high-temperature furnace for pyrolyzing tar in the combustible gas discharged from said gasification furnace.

14. (Original) The gasification system as recited in claim 1, wherein said gasification furnace comprises a fluidized-bed furnace having a bed material including at least one of silica sand and catalyst particles.

15. (Original) The gasification system as recited in claim 1, wherein said combustion furnace comprises a fluidized-bed furnace having a bed material including at least one of silica sand and catalyst particles.

16. (Original) The gasification system as recited in claim 1, further comprising a gas cooling apparatus for cooling the combustible gas discharged from said gasification furnace to remove moisture from the combustible gas.

17. (Original) The gasification system as recited in claim 1, ~~further comprising~~ wherein said combustion gas adjustment unit comprises a gas cooling apparatus for cooling the combustion gas discharged from said combustion furnace to remove moisture from the combustion gas.

Claims 18-34 (Cancelled).

35. (New) The gasification system as recited in claim 1, wherein said combustion gas adjustment unit comprises a heat exchanger for cooling the combustion gas discharged from said combustion furnace.

36. (New) The gasification system as recited in claim 1, wherein said gasification furnace and said combustion furnace are combined as a single unit to form an integrated gasification furnace.